

SAFETY INTERLOCK SYSTEMS DRAWING # KEY

WBS# = 4104_ _ _ + 2 Digit sector number & 2Digit # 01=BM, 02=ID

LDN# = _ _ _ drawing description –6 Digit number described below

1st & 2ND # (system) 10-19 = FEEPS (11=ver 1, 12= ver 2 & 2.1 13=Gen 3)

20-29 = PSS (20=gen 1, 21=gen 3), 30-39=BLEEPS, 50-89=Future use, 90-

99=Procedures

3rd & 4th # (location) 01= 1st station, 02= 2nd station, 03= 3rd station, etc.

20=Mezzanine

5th & 6th # (item) Shown below

GEN 3 PSS OPERATIONS FLOOR (stations)

4104_0_-210000 Cover sheet

-210001 Drawing list

-210_02

-210_03 Hutch layout

-210_04

-210_05 Station wiring diagram

4104-210006 PSS PCB Schematic

4104-210007 PCB layout

-210_08

-210_09

-210_10 PSS Cabinet layout

-210_11

-210_12 Enable key wiring diagram

-210_13 HMI panel

-210_14

-210_15

4104-210016 Single station cable wiring diagram

4104-210017 Dual station cable wiring diagram

-210_18

-210_19 HMI faceplate cutout diagram

-210_20

ALLEN BRADLEY/ GE INFORMATION

4104-210043 PLC input cable wiring diagram

4104-210044 PLC output cable wiring diagram

SHUTTERS

-210_50 physical layout

-210_51

4104-210054 2 cyl beamline interface enc. wiring diagram

4104-210055 2 cyl shutter pneumatic box assembly & wiring diagram

4104-210056 3 cyl beamline interface enc wiring diagram

4104-210057 3 cyl pneumatic box wiring diagram

4104-210058 3 cyl beamline shutter connection panel wiring diagram

4104-210059 2 cyl beamline shutter connection panel wiring diagram

REMOTE DEVICE

- 210_60
- 210_61
- 4104-210062 door control box layout & wiring diagram
- 4104-210063 door lock & pneumatics box wiring diagram
- 4104-210064 door control pneumatics schematic
- 4104-210065 door lock manual wiring diagram
- 210_66
- 4104-210080 Misc. remote device wiring diagram
- 210_83
- 210_84 Patlite audio panel & Ethernet port
- 210_85 Local network connections
- 210_86

USER INFORMATION

- 210_90
- 210_91

GEN 3 PSS MEZZANINE DRAWINGS

- 212000 PSS Mezzanine flow chart
- 212005 PSS Mezzanine wiring schematic
- 4104-212006 PSS Mezzanine PCB schematic
- 4104-212007 Printed circuit board layout
- 4104-212008 Validation connector switch cover
- 212009
- 212010 PSS Mezzanine front end rack layout
- 212011
- 212025 Power to PSS on exp. floor
- 212026
- 212027 Local network connection diagram
- 212029
- 212030 DIW system wiring diagram
- 212031
- 212042 FE Shutter pneumatics piping
- 212043 FE Shutter pneumatics detail
- 212044 PSS FE Shutter pneumatics
- 212053 Mezz dist rack love chassis connections
- 212054 EPICS DIW communication connection
- 212055
- 212061 Communications & power cabling diagram
- 212062 EPICS & DIW cabling diagram
- 212080 ACIS PSS interface block diagram
- 212081 FESIE-PSS interface enc. Term block
- 212082 FESIE-PS1 interface enclosure cabling diagram
- 212086 MEZZIE ACIS interface interconnection diagram
- 212087 MEZZIE PSS interface interconnection diagram
- 212088

GEN 3 PSS RELATED COMPONENT DRAWINGS

- 4104-212110 Station enclosure layout
- 4104-212111 Station enclosure fabrication detail
- 4104-212112 Station enclosure mounting plate fab. Detail
- 4104-212113 Station enclosure I/O support rack fab. Detail
- 4104-212114 Station PCB support plate detail
- 4104-212115 Station enclosure door fab. dwg.
- 4104-212116 Station door plate fabrication dwg.
- 4104-212117 PLC mounting plate detail
- 4104-212118 Station enclosure mounting plate detail
- 4104-212119 Station door plate w/HMI cutout
- 4104-212120 Station door lock & switch assembly
- 4104-212121 Station door lock mounting plate
- 4104-212122 Station door switch mounting detail
- 4104-212123 Station door lock & switch base plate
- 4104-212124 Station microswitch actuator detail
- 4104-212125 Station magnet lock plate detail
- 4104-212126 Station door lock shim detail
- 4104-212127 Station door magnetic sensor shim detail
- 4104-212128 Station door lock locknetics striker plate

- 4104-212211 Mezzanine PCB support plate detail layout
- 4104-212225 Mezzanine love controller chassis (6) plate layout
- 4104-212226 Mezzanine love controller chassis (6) wiring diagram

- 4104-219710 Validation system test cart fab. dwg.
- 4104-219712 Validation system station remote I/O box modification detail
- 4104-219713 Validation system station ESD A layout & interconnection diag.
- 4104-219714 Validation system station ESD B layout & interconnection diag.
- 4104-219715 Validation system chain C layout & interconnection diag.
- 4104-219716 Validation system mezzanine remote I/O box. Modification
- 4104-219717 Validation system mezzanine ESD A layout & interconnection diag.
- 4104-219718 Validation system mezzanine ESD B layout & interconnection diag.
- 4104-219719 Validation system mezzanine chain C layout & interconnection diag.
- 4104-219910 Gen 3 lab simulator assembly & parts list
- 4104-219911 Mezzanine lab simulator wiring diagram
- 4104-219915 Simulator misc. front end wiring details
- 4104-219916 BLEPS simulator test box wiring diagram
- 4104-219917 BLEPS simulator temporary jumper wiring diag.
- 4104-219918 Simulator door lock interrupt test box wiring diagram
- 4104-219920 Beamline shutter control pendant PCB & wiring detail
- 4104-219922 Beamline shutter control pendant face plate detail

FEEPS DRAWING SYSTEM

WBS# = 4104_ _ _ + 2 Digit sector number & 2Digit # 01=BM, 02=ID
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3rd & 4th # (location) 20=Mezzanine
5th & 6th # (item) Shown below

4104_0_-

- __2000 Block diagram
- __2001 Main rack layout
- __2002 Main panel wiring assembly
- __2003 Power distribution panel detail
- __2004 Main panel to field device interconnection diagram
- __2005 storage ring abort chassis (MPS) detail

BLEEPS DRAWING SYSTEM

WBS# = 4104_ _ _ + 2 Digit sector number & 2Digit # 01=BM, 02=ID
LDN# = _ _ _ drawing description –6 Digit number described below
1st & 2ND 30-39=BLEEPS
3rd & 4th # (location) 00= Beamline general
5th & 6th # (item) Shown below

4104_0_-

- 310000 Block diagram
- 310001 Local panel layout
- 310002 Local panel to field device cable detail
- 310003 Local rack layout
- 310004 Local panel layout
- 310011 Remote panel layout
- 310012 Remote panel to field device cable detail
- 310013 Remote rack layout
- 310016 Remote panel view enclosure
- 310020 Station layout

ACIS DRAWING SYSTEM

- 61802-321000 LEUTL/ACIS Beam stop control schematic
- 61802-322000 LEUTL/ACIS limit switch schematic
- 61802-331000 LEUTL/ACIS Local control schematic
- 61802-332000 LEUTL/ACIS Local control enclosure panel
- 61807-100010 LEUTL Radiation stop pneumatic schematic